Waukesha 4-H Project Guide



Category: Mechanical Sciences

4/2021

4-H Project Mechanics	Subprojects under this project
Things you might learn in this project:	 learn the basics of small engines; explore external engine parts and tools; identify the uses of small engines and safety issues. learn and identify parts of the tractor; understand the basics of tractor maintenance; learn about different fuels and engine cooling systems; research different safety features and learn safety rules. learn the essentials for getting started cycling safely; explore the basics toward lifelong cycling; learn safety, road rules and planning for a pleasant ride
Learning activities/ workshops/ field trip ideas:	 Interview a small engine or auto mechanic Participate in a bicycle rodeo Interview a police officer about bicycle safety Shadow a tractor repair serviceman for a day
Ideas of things you might exhibit in the fair:	 Poster on safety with small engines/lawn and garden equipment Display showing how a small engine runs Display on maintenance of small engine parts Poster comparing tractors and their use Display about proper tire tread, Automobile maintenance checklist Poster explaining torque Photo story with captions depicting engine overhaul. Display showing restoration of a tractor engine Repair or maintenance log of work performed Collection of worn or broken parts- explain defects. (Tip- zip-tie parts to a painted pegboard for a neat display.) Rebuilt engine, poster about lawn mower maintenance Display board showing parts of a carburetor Photo story with captions showing repair or maintenance Make an Auto roadside emergency kit Create an auto maintenance checklist and schedule
Waukesha County Project Leaders:	Conrad Forster c4ster@aol.com

References &	 https://fyi.extension.wisc.edu/wi4hprojects/mechanical-sciences/small-eng
Resource links:	ines/
	 https://fyi.extension.wisc.edu/wi4hprojects/mechanical-sciences/tractors/
	 https://fyi.extension.wisc.edu/wi4hprojects/mechanical-sciences/bicycling/
	 https://4-h.org/parents/curriculum/small-engines/
	• https://extension.sdstate.edu/4-h-automotive-small-tractor-engines-project